

REMARKS

Applicants have thoroughly considered the Examiner's remarks and the application has been amended in light thereof. Claims 1-23 are presented in the application for further examination. Claims 1, 2, 9, 12 and 17 have been amended by this Amendment D. Reconsideration of the application claims as amended and in view of the following remarks is respectfully requested. The following remarks will follow the sequence of the Office action.

Claims 1 and 12 have been amended to recite "each turn having an axis being displaced from the axis of its neighboring turn in a direction parallel to the direction of the conductor." (See page 8, last paragraph and Figure 5 of the pending application). Claim 9 has been amended to recite "each turn having an axis which is orthogonal to the direction of the conductor, each axis being displaced from the axis of its neighboring turn in a direction parallel to the direction of the conductor." As amended, claims 1, 9, and 12 are clear so that the objection has been overcome and should be withdrawn.

Claims 1-23 stand rejected under 35 USC §102(e) as being anticipated by Jitaru (US 6380727). The Examiner argues that Fig. 4C of Jitaru illustrates turns as recited by claims 1, 9 and 12. However, as noted above, the claims have been amended to recite that the axes of the turns are displaced along a line parallel to the direction of the conductor. In Fig. 4C of Jitaru, the axes of the traces 12 and 13 are collinear (not displaced as recited by the claims). Further, in Fig. 4C of Jitaru, the axes of the traces 12 and 13 are orthogonal to the arrows 10 and 11 which indicate current flow through the conductor. Thus, Jitaru does not illustrate axes that are displaced along a line which is parallel to the direction of the conductor, as recited by the claims.

Claim 2 has been amended to recite "wherein the axes are orthogonal to the direction of the conductor, wherein the first parts define a first plane parallel to the direction of the conductor and the second parts define a second plane parallel to the direction of the conductor, the first plane parallel to the second plane and wherein the line along which the axes are displaced is parallel to the first and second planes." In summary, claim 2 depending from claim 1 and including its recitals indicates that the axes are both **orthogonal** to the plane of the printed circuit board **and displaced** along a line **parallel** to the printed circuit board. In contrast, Fig. 4C of Jitaru illustrates the axes as parallel to the plane of the printed circuit board (not orthogonal to the PCB plane, as recited by claim 2). Further, as noted above, Fig. 4C of Jitaru illustrates the

axes as collinear (not displaced along a line parallel to the first and second planes as recited by claim 2).

The remaining dependent claims are patentable over Jitaru at least for the same reasons that independent claims 1, 9 and 12 are patentable. In particular, claims 2-8 and 16-23 are patentable based on their dependency from claim 1, claims 10 and 11 based on their dependency from claim 9, and claims 13-15 based on their dependency from claim 12. Furthermore, claim 17 is patentable for at least the same reasons that claim 2 is patentable.

Filed simultaneously with this amendment is an IDS citing Dames (US 6124708). Applicants submit that the claims are patentable over Dames at least for the reasons noted above. In addition, it is noted that Dames discloses a position detector not a rate of change of current sensor as recited by claim 1 or a switched reluctance drive as recited by claims 9 and 12. In addition, Dames does not have turns as recited by the claims. In addition, Dames teaches away from the recited invention by disclosing series connected, alternate sense loops and windings in spatial phase quadrature.

It is felt that a full and complete response has been made to the Office action and, as such, places the application in condition for allowance. Such allowance is hereby respectfully requested. If the Examiner feels, for any reason, that a personal interview will expedite the prosecution of this application, he is invited to telephone the undersigned.

Applicants do not believe that additional claim fees are due in connection with this response. If, however, the Commissioner determines that fees are due, he is authorized to charge Deposit Account No. 19-1345.

Respectfully submitted,

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